

US 08/809,620 I Reply to Action

RAPPORT DE CONTROLE DE TRANSMISSION

17/07/06

*Initialement Par erreur avec II comme Cestuy
Retrait - Reste 13 pages*

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US 08/809,620 (TE20060717a)
Goulven VERNIS - Reply to Action 02/16/06

To Mr. Thong Q. Nguyen

Art Unit 2872

July 17, 2006

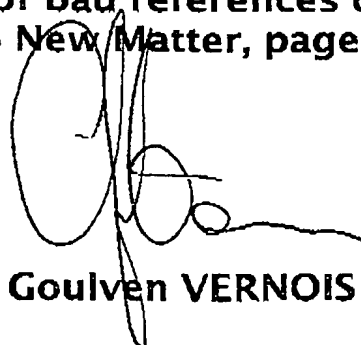
Second faxes

Via fax 571 273 8300

US 08/809,620

Same texts, but with numbering of lines

Correction of bad references of pagination
in No New Matter, pages 13-17



Goulven VERNIS

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18/05/09-18:47

1 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

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Art Unit 2872
Via fax 571-273-8300

APPLICATION 08/809,620

**OPTICAL DEVICE - Reply to the Office Action Summary mailed on
February 16, 2006**

Mr. Thong Q. Nguyen Examiner - Art Unit 2872

Dear Sir,

I think with you that a substitute specification under 37 CFR 1.121 (b)(3) is very appropriate to achieve the application concerning the optical device..

I reply strictly with regard to optical device constituted by a membranous mirror, its actuating membrane, and the electromagnetic field binded to axis of the telescope and allowing the rough chaping of the actuating membrane.

The folding of the mirror and of the actuating membrane, absolutely essential to put in orbit this optical device as soon as it is large, is inseparable of this optical device, and inserted in spécification and claims.

A handwritten signature consisting of a series of connected loops and curves, resembling a stylized 'W' or a series of peaks and valleys.

18/05/09-18:47

1 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

OPTICAL DEVICE

- I - **New abstract**
- II **Substitute specification under 37 CFR 1.121 (b)(3)**
 - a) **Instruction**
 - b) **Statement**
- III - **Amended claims under 1.121**
- IV - **Amended drawings under 1.121 (d)**
- V - **Claims listing**
- VI - **Working document for sbstitute specification showing no new matter**

On the detailed action mailed March 16, 1999, the Examiner determines the **Groups I, II, II, IV**.

Unfortunately, the description of the optical device comprising membranous mirror, its separate actuating membrane, and magnetic field tied to telescope, was scattered in several of the **Groups I, II, III, IV**.

To simplify, I take in account a **Group A** strictly with regard to :

a) **the optical device** constituted by the membranous mirror and its actuating membrane, allowing a micro control of the shape of the mirror,

b) **the magnetic field** tied to the telescope and allowing the macro control of the shape of the actuating membrane, the existence of these two control levels being an essential and fondamental difference with former art (Andrea Theodoro Augoustini, GB 2 247 323 A)

c) **the folding** of the mirror and of the actuating membrane.

I do not take in account the manufacturing of these membranes

As peripheral or central ruffles are not essential, they are canceled.

To make the drawings in appropriateness with the new description, this drawings are cleaned of all parasitic elements, but, on the other hand, coil 72 of the former PCT Fig 1, producting magnetic field tied to telescope will be put in new Fig 1, with dipole 142 of former PCT Fig 43 having the same function.

On this manner, the new Figure 1 is very expressive of the claimed invention.

The new specification that I am invited to write under 37 CFR 1.121 (b)(3) and 1.125 (a), (b), (c), is only in relation with this Group A.

For more explanations about folding of the membranes, the Applicant respectfully invites the Examiner to read the **US Patent 6,676,262 B1**.

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3 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

- I - NEW ABSTRACT

Telescope opical device constituted by a concave miror 1, a concave actuating membrane 2, and magnetic dipoles 3 and 4 tied to the telescope; the actuating membrane 2 microshapes the membranous mirror 1, and the magnetic dipoles 3 and 4 macroshape the actuating membrane 2.

Folding of the mirror 1 and of the actuating membrane 2 by regular distortions of the original concve shape.

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3 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

- II - **Substitute specification under 37 CFR 1.121 (b)(3)**

a) Instruction

Application 08/809,620

Goulven VERNOIS

INSTRUCTION TO REPLACE THE SPECIFICATION

37 CFR § 1.121 (3) (i)

I, Goulven VERNOIS, declare that the former specifications must be replaced by the present substitute specification.

Arradon, on the 15th of July 2006



Goulven VERNOIS

- II - **Substitute specification under 37 CFR 1.121 (b)(3)**

b) Statement

Application 08/809,620

Goulven VERNOIS

**STATEMENT THAT THE SUBSTITUTE SPECIFICATION DOES NOT
INCLUDE NEW MATTER - 37 CFR 1.125 (b)**

I, Goulven VERNOIS, declare that the present substitute specification does not include new matter.

This declaration is made with the knowledge that willful false statement and the like so made is punishable by fine or imprisonment, or both, under section 1001 of title 18 of the United States Code and that such willful false statement may jeopardise the validity of the application or any patent issued thereon.

Arradon, on the 15th of July 2006



Goulven VERNOIS